## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of controlling the rate of data transmission from a source of data to a user via a communications link, wherein processing means are provided to generate a signal representing a rate request which will be used in determining the rate at which data will be transmitted from the source to the user, said processing means generating the signal by-carrying out the steps of:

obtaining an indication of the amount of a congestion charge on said communications link,

selecting a value indicative of the user's willingness to pay for a given transmission data rate, and

determining the rate to be requested as a function of the indication of the amount of congestion and a difference between the user's willingness to pay and a congestion cost which is the product of congestion charge and a previously determined data transmission rate, said difference being weighted by a variable parameter, the processing means thereafter communicating the signal to the source of data and the rate of the data transmission from the data source to the user then being controlled on the basis of the signal.

- 2. (Original) A method according to claim 1, wherein said variable parameter assumes discrete values.
- 3. (Original) A method according to claim 1, wherein the value of said variable parameter varies continuously.
  - 4. Cancelled.
- 5. (Previously Presented) A method according to claim 1, wherein the value of said variable parameter varies in accordance with the difference between the user's willingness to pay and the indication of the amount of congestion.
- 6. (Currently Amended) A method according to any preceding claim 1, wherein said rate to be requested is determined using the following iterative equation:

$$x_{n+1} = x_n + delta * kappa * x_n^{\xi} (w - x_n * \mu)$$

where  $x_n$  is the data transmission rate (bits per second) as calculated at an nth iteration; and  $x_{n+1}$  is the rate to be determined;  $x_n*\mu$  is the charge to the user indicative of amount of congestion and is the product of  $x_n$  and congestion charge  $\mu$ ; w is the willingness to pay; delta is the time elapsed between two iterations; kappa is a constant gain parameter; and  $\xi$  (xi) is a parameter whose value is set depending on the indication of congestion or the user's willingness to pay.

7. (Original) A method according to claim 5, wherein if the difference between the indication of the amount of congestion and the user's willingness to pay falls within a predetermined range a first data rate is requested, and if the difference between

the indication of the amount of congestion and the user's willingness to pay falls outside the predetermined range a second different data rate is requested.

- 8. (Currently Amended) A method according to claim [[7]] $\underline{6}$  wherein said parameter  $\xi$  is a step function assuming the value 0 for values of said difference larger than a threshold value, and assuming the value 1 for values of said difference smaller than said threshold value.
- 9. (Original) A method according to claim 7 said step of providing an indication of amount of congestion includes determining a marking rate m of incoming data transmitted on said communications link and wherein said congestion charge is determined from said marking rate.
- 10. (Currently Amended) A rate controller for controlling the rate of data transmission from a source to a user via a communications link, said rate controller including processing means for generating a signal representing a rate request which will be used in determining the rate at which data will be transmitted from the source to the user, said processing means including:

means for obtaining an indication of the amount of a congestion on charge for said communications link,

selecting means for selecting a value indicative of the user's willingness to pay for a given transmission data rate,

determining means for determining the rate to be requested as a function of the difference between indication of the amount of congestion and the USER�Sthe

user's willingness to pay and a congestion cost which is the product of a congestion charge and a previously determined data transmission rate, said difference being weighted by a variable parameter, the processing means further including and

means for communicating the signal to the source, wherein the rate of the data transmission from the source to the user is controlled on the basis of the signal.

- 11. (Original) A rate controller according to claim 10, wherein said determining means is adapted to, determine the difference between the user's willingness to pay and the indication of the amount of congestion, and vary the value of the variable parameter in accordance with the difference.
- 12. (Original) A rate controller according to claim 11, wherein said determining means determines a first rate to be requested if said difference between the indication of the amount of congestion and said selected value falls within a predetermined range, and a second different data rate to be requested if the difference between the indication of the amount of congestion and the value falls outside the predetermined range.
- 13. (Previously Presented) A rate controller according to claim 10, wherein said determining means is adapted to determine said rate to be requested using the following iterative equation:

 $x_{n+1} = x_n + delta * kappa * x_n^{\xi} (w - x_n * \mu)$ 

where  $x_n$  is the data transmission rate (bits per second) as calculated at an nth iteration; and  $x_{n+1}$  is the rate to be determined;  $x_n*\mu$  is the charge to the user indicative of amount of congestion and is the product of  $x_n$  and congestion charge  $\mu$ ; w is the willingness to pay selected by selecting means in response to a determined transmission rate; delta is the time elapsed between two iterations; kappa is a constant gain parameter; and  $\xi$  (xi) is a parameter whose value is set depending on the indication of congestion or the user's willingness to pay.

- 14. (Previously Presented) A rate controller according to claim 10, wherein said means for obtaining an indication of the amount of congestion comprises metering means for determining a marking rate of incoming data transmitted on said communications link.
- 15. (Previously Presented) A rate controller according to claim 11, wherein said variable parameter is a step function assuming the value 0 for values of said difference larger than a threshold value, and assuming the value 1 for values of said difference smaller than said threshold value.
  - 16.-19. Cancelled.
- 20. (Currently Amended) A program storage device readable by a processing apparatus, said device embodying a program of computer readable medium encoded with computer executable instructions executable by the processor to perform the steps of claim 1.